

# PATENT ABSTRACTS OF JAPAN

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## (54) PAIN ALLEVIATING APPARATUS

(57)Abstract:

PURPOSE: To provide an acoustic pressure impulse source for applying acoustic pressure impulse to a painful region.

CONSTITUTION: Acoustic pressure impulse source 1 is applied to a patient. Specifically, it is applied to make it possible to treat a painful region shown in the cross section of the body of a patient with the impulse applied to the surface of the body by an elastic bonding film 2 while using a supersonic positioning device. Pressure impulse source 1 has a casing 5, and impulse generator 6 is provided to one end thereof. Sound collection lens 7 is placed before impulse generator 6 for focusing planar impulse. Further, the energy density pressure impulse source 1 is in a range of 0.05 to 0.6 mJ/mm<sup>2</sup>, peak pressure of acoustic pressure impulse of 50 to 70 bar, and the number of pressure impulses applied continuously to the painful region should not be less than 50.

